

Product datasheet for **MG222522**

Wnt16 (NM_053116) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Wnt16 (NM_053116) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Wnt16
Synonyms: E130309I19Rik
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG222522 representing NM_053116
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGACAGAGCGGCGCTCCTGGCCCTGCCAGCTTGTGTGCGCTGTGGCAGCCGTGCTGTCGCTGCTCC
CCTGCGGAACCCAGGGCAACTGGATGTGGTTGGGCATCGCCTCTTTCGGGGTACCGGAGAAGCTGGGCTG
CGCCGACTTGCCGCTGAACAGCCGCCAGAAGGAGCTGTGCAAGAGGAAACCGTACCTGCTGCCTAGCATC
CGCAGGGCGCCAGGCTGGCATTTCAGGAGTGCAGAAGCCAGTTCGACACGAGAGGTGAACTGTATGG
TCGCCACTACCACTTCCACCCAGCTCGCCACAGCCCCCTCTTTGGCTATGAGCTGAGTAGCGGCACCAA
GGAGACAGCATTCAATTTATGCCATCATGGCAGCGGGCCTGGTGCCTCTGTCAACAGGTCATGCAGTGCA
GGCAACATGACCGAATGTTCTGTGACACCACCTTGCAGAATGGTGGCTACCAAGTGAAGGCTGGCACT
GGGGAGGATGCTCGGATGATGTCCAGTACGGCATGTGGTTCAGCAGAAAAGTTTCTAGATCTTCCCATCAG
AAACACCACAGGAAAAGAAAGCAGAGTCTGCTAGCCATGAATCTACACAACAACGAAGCGGGCGGCAG
GCTGTCGCAAGTTAATGTCTGTGGACTGCCGCTGCCACGGAGTTTCCGGCTCCTGTGCTGTGAAAACCT
GCTGGAAAATATGTCTTCTTTTAAAAGATTGGGCATTTTTAAAGGATAAATATGAAAACAGCATCCA
GATCTCAGACAAAACCAAGAGGAAAAATGCGCAGGAGAGAAAAAGACCAGAGGCAGACCCCATCTCAAG
GATGACTTGCTGTACGTTTATAAGTCTCCCACTACTGCGTGGAGAACAAGAACTGGGGATTCTGGGA
CCAGGGCAGAGAGTGAACCGGACATCAGGAGGCGCAGATGGCTGTAACCTCCTCTGCTGTGGCCGAGG
CTACAACCCATGTAGTCAGGCACGTGGAGAGGTGTGAGTGTAAAGTTTATCTGGTGTGCTACGTCGCG
TGCAGGAGGTGTGAAAGTATGACCGATGTCCACACGTGTAAG

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG222522 representing NM_053116
 Red=Cloning site Green=Tags(s)

MDRAALLALPSLCALWAAVL SLLPCGTQGNMMLGIA SFGVPEKLG CADLPLNSRQKELCKRKP YLLPSI
 REGARLGIQECSQFRHERWNCMVATTTSTQLATAPLFGYELSSGKTETAFIYA IMAAGLVHSVTRSCSA
 GNMTECSCD TLLQNGGSPSEGWHWGGCSDDVQYGMWF SRKFLDLP IRNTTGKESR VLLAMNLHNNEAGRQ
 AVAKLMSVDCRCHGVSGSCAVKTCWKTMSSEKIGHFLKDKYENSIQISDKTKRKMRRREK DQRQTPILK
 DDLLYVHKSPNYCVENKKGIPGTQGRECNRTSGGADGCNLLCCGRGYNTHVVRHVERCECKFIWCCYVR
 CRRCESMTDVHTCK

TRTRPLE - GFP Tag - V

Chromatograms: https://cdn.origene.com/chromatograms/ja3720_g03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_053116

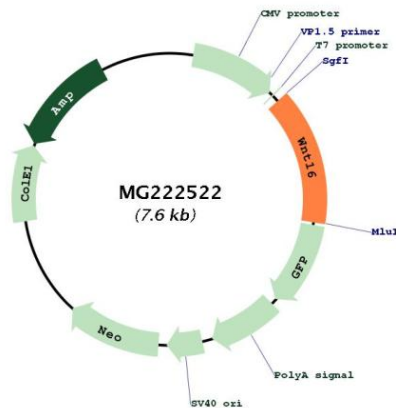
ORF Size: 1092 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in *E. coli* are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

- OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
- Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
- Reconstitution Method:**
1. Centrifuge at 5,000xg for 5min.
 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
 3. Close the tube and incubate for 10 minutes at room temperature.
 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
 5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
- RefSeq:** [NM_053116.4](#), [NP_444346.3](#)
- RefSeq Size:** 1666 bp
- RefSeq ORF:** 1095 bp
- Locus ID:** 93735
- UniProt ID:** [Q9QYS1](#)
- Cytogenetics:** 6 A3.1
- Gene Summary:** Ligand for members of the frizzled family of seven transmembrane receptors. Probable developmental protein. May be a signaling molecule which affects the development of discrete regions of tissues. Is likely to signal over only few cell diameters (By similarity). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG222522